

- B3
4. The compound of Claim 2, wherein the substituted piperidyl formed by  $R^2$  and  $R^3$  is substituted with a group selected from the group consisting of an aromatic group; a substituted aromatic group; a heteroaromatic group; a substituted heteroaromatic group; a substituted hydrocarbon group, wherein the substituted hydrocarbon group is substituted with a group selected from the group consisting of an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and a substituted heterogenous group, wherein the substituted heterogenous group is substituted with a group selected from the group consisting of an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group.

Please amend Claim 5 as follows:

- B4
5. The compound of Claim 18, wherein  $R^4$  is  $-S(O)_2-$  and  $R^5$  is  $-O, R^6$ .

Please amend Claim 9 as follows:

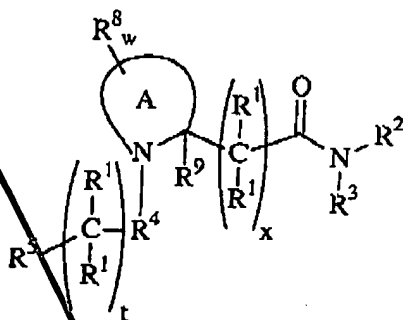
- B5
9. The compound of Claim 18, wherein  $R^4$  is  $-C(O)-C(O)-$  and  $R^5$  is  $-O, R^6$ .

Please amend Claim 11 as follows:

- B6
11. The compound of Claim 4, wherein  $R^4$  is  $-CH(R^1)-$  and  $R^5$  is  $-O, R^6$ .

Please add new Claim 18 as follows:

18. A compound having the structure:



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- (c)  $R^1$  is selected from the group consisting of a hydrogen atom, a hydroxyl group, a hydrocarbon group, a substituted hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group;
- (d)  $R^2$  and  $R^3$  are bonded together to form a substituted piperidyl;
- (e)  $R^4$  is selected from the group consisting of  $-S(O)_2-$ ,  $-C(O)-C(O)-$ , and  $-CH(R^1)-$ ;
- (f)  $R^5$  is selected from the group consisting of  $-NR^6(R^7)-$  and  $-O_rR^6-$ , wherein  $r$  is 0 or 1; with the proviso that wherein  $R^4$  is  $-CH(R^1)-$  and  $R^5$  is  $-O_rR^6-$  then  $r$  is 1;
- (g)  $R^6$  is selected from the group consisting of a hydrocarbon group, a substituted hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and  $R^7$  is selected from the group consisting of a hydrogen atom and  $R^6$ ;
- (h)  $R^8$  is selected from the group consisting of a hydrocarbon group, a substituted hydrocarbon group, a heterogeneous group, a substituted heterogeneous group, a carbocyclic group, a substituted carbocyclic group, a heterocyclic group, a substituted heterocyclic group, an aromatic group, a substituted aromatic group, a heteroaromatic group, and a substituted heteroaromatic group; and
- (i)  $R^9$  is selected from the group consisting of a hydrogen atom and a hydrocarbon group.

Please add new Claim 19 as follows:

19. The compound of Claim 11, wherein  $r$  is 1.

Please add new Claim 20 as follows:

20. The compound of Claim 19, wherein  $R^1$  is selected from the group consisting of hydrogen atom and hydroxyl group.

Please add new Claim 21 as follows:

21. The compound of Claim 20, wherein  $t$  is from 0 to about 3 and at least one  $R^1$  is hydroxy.

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**Please add new Claim 22 as follows:**

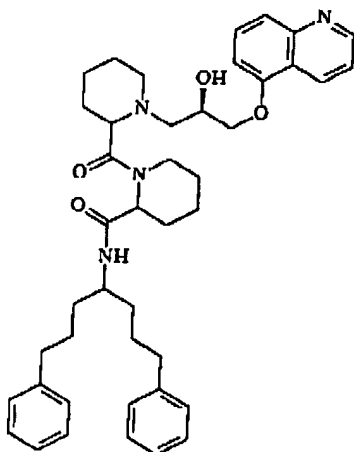
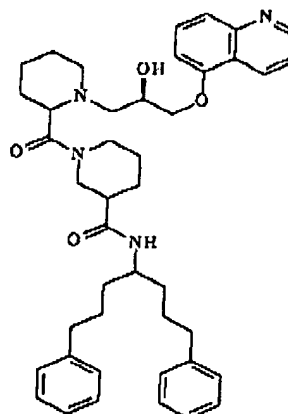
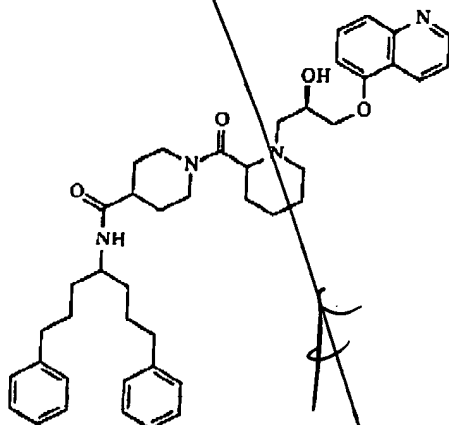
22. The compound of Claim 21, wherein  $x$  is 0.

~~Please add new Claim 23 as follows:~~

23. ~~The compound of Claim 22, wherein R<sup>9</sup> is hydrogen atom.~~

~~Please add new Claim 24 as follows:~~

24. The compound of Claim 23, having a structure selected from the group consisting of:



**Please add new Claim 25 as follows:**

25. A composition comprising:
- (a) the compound according to Claim 18; and
  - (b) a pharmaceutically acceptable carrier.

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Please add new Claim 26 as follows:

26. The composition according to Claim 25, wherein the compound inhibits transport protein activity.

Please add new Claim 27 as follows:

27. A composition comprising:  
(a) the compound according to Claim 11; and  
(b) a pharmaceutically acceptable carrier.

Please add new Claim 28 as follows:

28. A composition comprising:  
(a) the compound according to Claim 24; and  
(b) a pharmaceutically acceptable carrier.

Please add new Claim 29 as follows:

29. A method selected from the group consisting of treating multidrug resistance, inhibiting transport protein activity, and combinations thereof, comprising administering to a mammal in need of such treatment or inhibition the composition according to Claim 18.

Please add new Claim 30 as follows:

30. A method selected from the group consisting of treating multidrug resistance, inhibiting transport protein activity, and combinations thereof, comprising administering to a mammal in need of such treatment or inhibition the composition according to Claim 11.

Please add new Claim 31 as follows:

31. A method selected from the group consisting of treating multidrug resistance, inhibiting transport protein activity, and combinations thereof, comprising administering to a mammal in need of such treatment or inhibition the composition according to Claim 24.